

Claims

- [c1] 1. An insulator for the coil windings of an armature for a rotating electrical machine, the armature having a core having a cylindrical portion from which a plurality of circumferentially spaced teeth extend in a radial direction relative to the axis of relative rotation of the machine and defining slots therebetween, said insulator having a plurality of circumferentially spaced extensions having at least three sides, two of said sides being adapted to extend radially along the facing surfaces of adjacent of the teeth, the remaining of said sides comprising an interconnecting side extending between common peripheral ends of said two sides and adapted to be disposed at one end of the slot between the adjacent teeth, the projected ends of said sides tapering from at least one peak of the maximum length of said sides in the axial direction for facilitating fitting of said insulator into the armature in the slot in an axial direction.
- [c2] 2. An insulator as set forth in claim 1 wherein the number of insulator extensions is equal to the number of slots of the armature core.
- [c3] 3. An insulator as set forth in claim 1 wherein the plural-

ity of extensions are integrally connected to each other by fourth sides that extend along one axial face of the pole teeth.

- [c4] 4. An insulator as set forth in claim 3 wherein, the number of insulator extensions is equal to the number of slots of the armature core.
- [c5] 5. An insulator as set forth in claim 1 wherein the at least one peak is formed at the point where one of the sides joins another of the sides.
- [c6] 6. An insulator as set forth in claim 5 wherein the one side comprises one of the facing sides and the third side.
- [c7] 7. An insulator as set forth in claim 1 wherein there are a pair of insulators as defined therein with the first, second and third sides thereof engaged between the same adjacent pole teeth and slots.
- [c8] 8. An insulator as set forth in claim 7 wherein the number of each of the insulator extensions is equal to the number of slots of the armature core.
- [c9] 9. An insulator as set forth in claim 8 wherein the plurality of extensions of each insulator are integrally connected to each other by fourth sides that extend opposite axial faces of the pole teeth.

[c10] 10. An insulator as set forth in claim 9 wherein the peaks of the insulators are circumferentially spaced from each other to minimize the amount of the pole teeth that is uncovered.